# SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Li, Haodong
- (ii) TITLE OF INVENTION: Human Chemokine Polypeptides
- (iii) NUMBER OF SEQUENCES: 20
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: Human Genome Sciences, Inc.
    - (B) STREET: 9410 Key West Avenue
    - (C) CITY: Rockville
    - (D) STATE: MD
    - (E) COUNTRY: USA
    - (F) ZIP: 20850
    - (v) COMPUTER READABLE FORM:
      - (A) MEDIUM TYPE: Floppy disk
      - (B) COMPUTER: IBM PC compatible
      - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
      - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US
  - (B) FILING DATE: 23-FEB-1996
  - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Millstein, Larry S
  - (B) REGISTRATION NUMBER: 34,679
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: 301-309-8504
    - (B) TELEFAX: 301-309-8512
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA (genomic)
  - (ix) FEATURE:
    - (A) NAME/KEY: CDS
    - (B) LOCATION: 1..288
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATG TGC TGT ACC AAG AGT TTG CTC CTG GCT GCT TTG ATG TCA GTG CTG Met Cys Cys Thr Lys Ser Leu Leu Leu Ala Ala Leu Met Ser Val Leu

48

1				5					10					15		
		_						GAA Glu 25								96
								CTT Leu								144
								GGC Gly								192
								GTG Val								240
								CTC Leu								288
TAA																291
(2)			(A) (B)	ENCE	CHAI IGTH : PE :	RACTI : 96	ERIST amin	rics no ac id								
	( 5	Li) N	OLEC	CULE	TYPE	: pi	cote	in								
	(2	ci) S	EQUE	ENCE	DESC	CRIP	rion	: SE	O ID	NO:2	2:					
Met 1	Cys	Cys	Thr	Lys 5	Ser	Leu	Leu	Leu	Ala 10	Ala	Leu	Met	Ser	Val 15	Leu	
Leu	Leu	His	Leu 20	Cys	Gly	Glu	Ser	Glu 25	Ala	Ala	Ser	Asn	Phe 30	Asp	Cys	
Cys	Leu	Gly 35	Tyr	Thr	Asp	Arg	Ile 40	Leu	His	Pro	Lys	Phe 45	Ile	Val	Gly	
Phe	Thr 50	Arg	Gln	Leu	Ala	Asn 55	Glu	Gly	Cys	Asp	Ile 60	Asn	Ala	Ile	Ile	
Phe 65	His	Thr	Lys	Lys	Lys 70	Leu	Ser	Val	Cys	Ala 75	Asn	Pro	Lys	Gln	Thr 80	
Trp	Val	Lys	Tyr	Ile 85	Val	Arg	Leu	Leu	Ser 90	Lys	Lys	Val	Lys	Asn 95	Met	
(2)	INFO	ORMA:	rion	FOR	SEQ	ID 1	10:3	:								

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297 base pairs

	(ii)	MOI	LECUI	E T	PE:	DNA	(ger	omic	:)							
	(ix)	(I	ATURE A) NA B) LC	ME/I			294									
	(xi)	SEÇ	QUENC	CE DE	SCRI	PTIC	ON: 8	SEQ 3	D NC	):3:						
			TCT Ser													48
			CAG Gln 20													96
			TTC Phe													144
			GTG Val													192
			AAA Lys													240
			AAT Asn							٠.						288
	ACT Thr	TGA														297
(2)	INF	ORMA	rion	FOR	SEQ	ID 1	NO:4	:								
	<ul> <li>(1) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 98 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>															
	( :	ii) 1	MOLE	CULE	TYP	E: p	rote	in								
	(2	ki) s	SEQUI	ENCE	DES	CRIP	rion	: SE	Q ID	NO:	4:					
Met 1	Lys	Val	Ser	Ala 5	Val	Leu	Leu	Cys	Leu 10	Leu	Leu	Met	Thr	Ala 15	Ala	
Phe	Asn	Pro	Gln 20	Gly	Leu	Ala	Gln	Pro 25	Asp	Ala	Leu	Asn	Val 30	Pro	Ser	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

Lys	Ser 50	Tyr	Val	Ile	Thr	Thr 55	Ser	Arg	Сув	Pro	Gln 60	Lys	Ala	Val	Ile		
Phe 65	Arg	Thr	Lys	Leu	Gly 70	Lys	Glu	Ile	Cys	Ala 75	Asp	Pro	Lys	Glu	Lys		
Trp	Val	Gln	Asn	Tyr 85	Met	Lys	His	Leu	Gly 90	Arg	Lys	Ala	His	Thr 95	Leu		
Lys	Thr																
(2)	INFO	ORMA'	TION	FOR	SEQ	ID i	NO : 5	:									
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 26 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>																
	(ii) MOLECULE TYPE: DNA (genomic)																
	(xi)	) SE	QUEN	CE D	ESCR:	IPTI(	ON:	SEQ :	ID N	0:5:							
CCC	3CAT(	GCA A	AGCA	GCAA	GC A	ACTT'	Г										26
(2)	INFO	ORMA'	TION	FOR	SEQ	ID 1	NO : 6	:									
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 30 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>																
	(ii)	) MO	LECU:	LE T	YPE:	DNA	(ge	nomi	c)								
	(xi)	) SE	QUEN	CE D	ESCR:	IPTI(	ON:	SEQ	ID N	0:6:							
AAA	GGAT(	ccc .	ATGT'	TCTT	GA C'	TTTT'	TTAC'	r									30
(2)	INF	ORMA'	TION	FOR	SEQ	ID 1	NO:7	:									
	(i)	() ()	QUENCA) LIB) TO	ENGT: YPE : TRAN	H: 2 nuc DEDN	7 ba: leic ESS:	se pacionsing	airs d									
	(ii		LECU					nomi	c)								

Thr Cys Cys Phe Thr Phe Ser Ser Lys Lys Ile Ser Leu Gln Arg Leu

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
CCCGCATGCA GCCAGATGCA CTCAACG	27
(2) INFORMATION FOR SEQ ID NO:8:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 28 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
AAAGGATCCA GTCTTCAGGG TGTGAGCT	28
(2) INFORMATION FOR SEQ ID NO:9:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 29 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
GGAAAGCTTA TGTGCTGTAC CAAGAGTTT	29
(2) INFORMATION FOR SEQ ID NO:10:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 59 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CGCTCTAGAT TAAGCGTAGT CTGGGACGTC GTATGGGTAA CATGGTTCCT TGACTTTTT	59

(2)	INFORMATION FOR SEQ ID NO:11:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 28 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
GGA	AAGCTTA TGAAAGTTTC TGCAGTGC	28
(2)	INFORMATION FOR SEQ ID NO:12:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:         <ul> <li>(A) LENGTH: 58 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul> </li> </ul>	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CGC'	TCTAGAT CAAGCGTAGT CTGGGACGTC GTATGGGTAA GTCTTCAGGG TGTGAGCT	58
(2)	INFORMATION FOR SEQ ID NO:13:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 28 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
CGC	GGGATCC TTAACCTTCA ACATGAAA	28
(2)	INFORMATION FOR SEQ ID NO:14:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 29 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:14:	
CGC	GGTA	CC TTAACACATA GTACATTTT	29
(2)	INFO	RMATION FOR SEQ ID NO:15:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 27 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:15:	
GCG	GGATC	CT TAACCTTCAA CATGAAA	27
(2)	INFO	RMATION FOR SEQ ID NO:16:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 29 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:16:	
CGC	GGGTA	CC TTAACACATA GTACATTTT	29
(2)	INFO	RMATION FOR SEQ ID NO:17:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 70 amino acids  (B) TYPE: amino acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: protein	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:17:	

(ii) MOLECULE TYPE: DNA (genomic)

His Pro Gly Ile Pro Ser Ala Cys Cys Phe Arg Val Thr Asn Ile Cys

1 5 10 15

Lys Ile Ser Phe Gln Ala Leu Lys Ser Tyr Lys Ile Ile Thr Ser Ser 20 25 30

Lys Cys Pro Gln Thr Ala Ile Val Phe Glu Ile Lys Pro Asp Lys Met
35 40 45

Ile Cys Ala Asp Pro Arg Xaa Xaa Trp Val Gln Asp Ala Lys Lys Tyr 50 55 60

Leu Asp Gln Ile Ser Gln 65 70

#### (2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 99 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

Met Lys Ala Ser Ala Ala Leu Leu Cys Leu Leu Leu Thr Ala Ala Ala 1 5 10 15

Phe Ser Pro Gln Gly Leu Ala Gln Pro Val Gly Ile Asn Thr Ser Thr 20 25 30

Thr Cys Cys Tyr Arg Phe Ile Asn Lys Lys Ile Pro Lys Gln Arg Leu 35 40 45

Glu Ser Tyr Arg Arg Thr Thr Ser Ser His Cys Pro Arg Glu Ala Val
50 55 60

Ile Phe Lys Thr Lys Leu Asp Lys Glu Ile Cys Ala Asp Pro Thr Gln 65 70 75 80

Lys Trp Val Gln Asp Phe Met Lys His Leu Asp Lys Lys Thr Gln Thr 85 90 95

Pro Lys Leu

## (2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 76 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Gln Pro Val Gly Ile Asn Thr Ser Thr Thr Cys Cys Tyr Arg Phe Ile 1 5 10 15

Asn Lys Lys Ile Pro Lys Gln Arg Leu Glu Ser Tyr Arg Arg Thr Thr 20 25 30

Ser Ser His Cys Pro Arg Glu Ala Val Ile Phe Lys Thr Lys Leu Asp 35 40 45

Lys Glu Ile Cys Ala Asp Pro Thr Gln Lys Trp Val Gln Asp Phe Met 50 55 60

Lys His Leu Asp Lys Lys Thr Gln Thr Pro Lys Leu 70 75

- (2) INFORMATION FOR SEQ ID NO:20:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 74 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: protein
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg 1 5 10 15

Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly 20 25 30

Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp 35 40 45

Ile Cys Ala Asp Pro Lys Lys Lys Trp Val Gln Asp Ser Met Lys Tyr 50 55 60

Leu Asp Gln Lys Ser Pro Thr Pro Lys Pro 65